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WATER SUPPLY OUTLOOK FOR WASHINGTON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
FEB. 1, 1974

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

(U.S. PHOTO A-272-11)

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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WATER SUPPLY OUTLOOK FOR WASHINGTON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C

|||||

Released by

GALEN S. BRIDGE

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SPOKANE, WASHINGTON

In Cooperation with

JOHN A. BIGGS

DIRECTOR
DEPARTMENT OF ECOLOGY
STATE OF WASHINGTON

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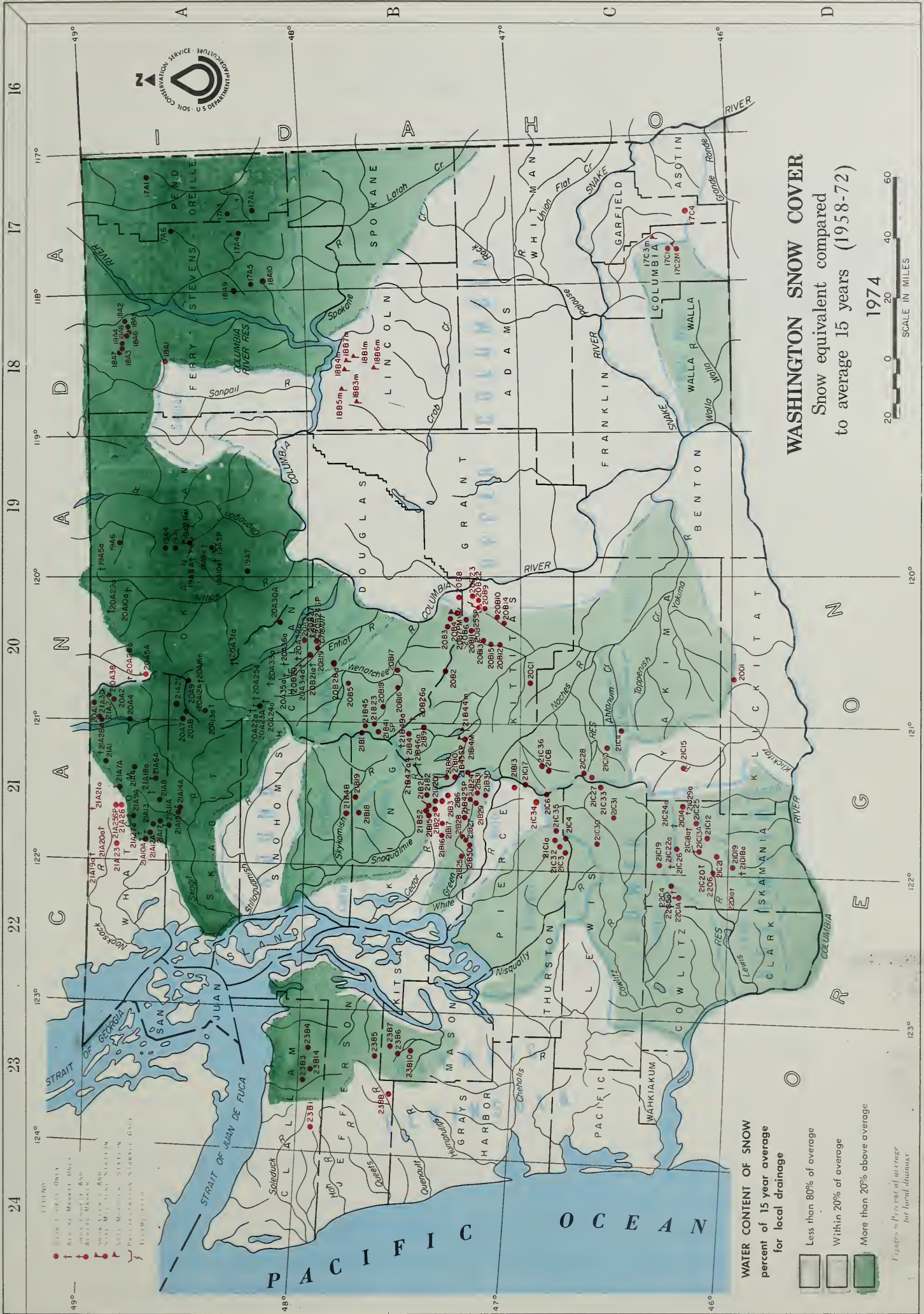
Report prepared by

ROBERT T. DAVIS, Snow Survey Supervisor

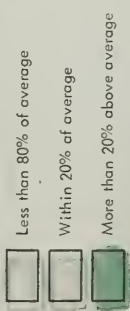
SOIL CONSERVATION SERVICE
360 U.S. COURTHOUSE
SPOKANE, WASHINGTON 99201

INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

NAME	NUMBER	SEC. TWP.	RANGE	ELEV.
UPPER COLUMBIA DRAINAGE				
Pend Oreille River				
Boyer Mountain	1742	7	31N	43E
Elmhurst Meadow	1741	24	37N	44E
Winchester Creek	1743	30	33N	43E
Kettle River				
Boulder Road	1842	36	39N	36E
Butte Creek	1843	28	39N	35E
Cabin Creek	1848	5	38N	36E
Goat Creek	1844	26	39N	35E
Snow Caps Creek	1845	3	38N	36E
Snow Caps Trail	1846	5	38N	36E
Summit G. S.	1847	20	39N	35E
Colville River				
Baird	1746	19	36N	42E
Carlson	1849	34	32N	38E
Chewelah	1744	11	32N	41E
Stranger Mountain	1745	6	31N	38E
Togo	18410	2	29N	38E
Sonpoll River				
Sherman Creek Pass	1841	19	36N	35E
Okonegon River				
Clark	1968a	2	36N	23E
Muckamuck	1969a	20	36N	24E
Mutton Creek No. 1	1941	30	37N	24E
Mutton Creek No. 2	1944	19	37N	24E
Paydayen	20428a	32	40N	18E
Rusty Creek	1943P	18	35N	24E
Salmon Meadows	1942PM	33	37N	24E
Starvation Mtn.	19410a	15	35N	23E
Touts Coulee	1946	30	39N	25E
Methow River				
Billy Goat Pass	20A10a	10	38N	20E
Dollar Ranch	20A29a	8	39N	20E
Harris Pass	20A5A	7	37N	18E
Horseshoe Basin	19A5a	15	40N	23E
Loop Loop	1947	36	34N	23E
Chelion Lake Basin				
Cloudy Pass	20A22a	12	31N	15E
Greenwood Flat	20A25a	3	31N	16E
Little Meadows	20A24a	8	31N	16E
Lyman Lake	20A23a	18	31N	16E
Park Creek Flat	20A13a	18	34N	16E
Park Creek Ridge	20A12a	7	34N	16E
Petersons	20A16a	3	34N	17E
Rainy Pass	20A9	21	35N	17E
Safety Harbor	20A50A	32	31N	20E
War Creek Pass	20A31a	34	33N	18E
Entiat River				
Rine Creek G.S.	20B28a	19	28N	18E
Brief	20B19	34	28N	19E
Initial Meadows	20A33a	28	31N	17E
Initial River Trail	20A34a	2	29N	17E
Four Mile Ridge	20B27a	15	28N	19E
Fox Camp	20A36a	17	30N	18E
Hope Ridge	20B20	22	29N	18E
Hope Ridge Snow Pillow	20B24SP	22	29N	18E
Pugh Ridge	20A52a	34	30N	18E
Shady Pass	20A37	20	29N	19E
Snow Brushy	20A35a	21	30N	17E
Tommy Creek	20B21a	10	28N	18E
Wenatchee River				
Berne-Mill Creek	21B23	7	26N	15E
Berne-Mill Creek (New)	21B1NSP	13	26N	14E
Blewett Pass No. 2	20B2	35	22N	17E
Chinookam G. S.	20B16	1	25N	17E
Lake Wenatchee	20B5	33	27N	17E
Leavenworth R. S.	20B17	1	24N	17E
Merritt	20B18	4	26N	16E
Stevens Pass	21B1	11	26N	13E
Stevens Pass Sand Shed	21B15	12	26N	19E
Wenatchee River (continued)				
Trough #2	20B2SSP	10	20N	20E
Colockum Creek				
Colockum Creek upper	20B822	11	20N	20E
Colockum Creek lower	20B83	1	20N	20E
Squillchuck Creek				
Beehive Springs	20B83	12	21N	19E
Scout-A-Vista	20B4	18	21N	20E
Stemilt Creek				
Jump-Off	20B8	34	21N	20E
Stemilt Slide	20B6	30	21N	20E
Upper Mheier	20B7PM	50	21N	20E
Crab Creek				
Creston-Kunz	18B1m	32	27N	34E
Jack Woods	18B3m	28	27N	31E
Krause	18B4m	21	27N	33E
Sheffels	18B5m	17	27N	32E
Sherman	18B7m	24	27N	33E
Wheatridge	18B6m	24	25N	32E
Yakima River				
Altatum R. S.	21C11	26	12N	14E
Big Boulder Creek	21B9	35	23N	14E
Bumping Lake	21C8	23	16N	12E
Bumping Lake New	21C36	13	16N	12E
Colockum Pass	20B89	25	20N	20E
Cooke Creek	20B10	17	19N	20E
Domery Flat	21B44m	15	20N	14E
Fish Lake	21B4	34	24N	14E
Green Lake	21C10	3	12N	13E
Grouse Camp	20B11	29	21N	19E
High Creek	20B12	34	22N	19E
Joe Lake	21B46a	22	23N	12E
Lake Cle Elum	21B144	15	20N	14E
Lemah Creek	21C17	24	17N	16E
Mastash	20B13	4	20N	19E
Morse Lake	20B14	20	19N	20E
Tunnel Avenue	21B8	13	17N	11E
Van Ipps Pass	20B26a	16	22N	15E
Walters Flat	20B15	22	20N	19E
Waprus Lake	21B49a	12	23N	13E
White Pass (East Side)	21C28	2	13N	11E
White Pass (Leach Lake)	21C27	1	13N	11E
Lewis River (continued)				
Divide Meadow	21C29a	21	9N	10E
Grand Meadow	21C25	28	8N	9E
Lone Pine Shelter	21C26	8	9N	7E
Marble Mountain	22C5a	24	8N	5E
New Muddy River	22C6	56	6N	20E
Oldman Pass	21D19	22	6N	7E
Plains of Abraham	22C1a	25	9N	5E
Smith Creek Road	22C4	39	9N	6E
Spencer Meadow	21C20a	16	8N	7E
Summit Lakes	21C13a	14	7N	8E
Table Mountain	21C24a	20	9N	9E
Timbered Peak	21D18a	36	6N	6E
Cowlitz River				
Cayuse Pass	21C6	15	16N	10E
Mosquito Meadows	21C19	33	10N	7E
Onanaposh	21C32	28	15N	10E
Packwood Lake	21C31	21	15N	10E
Pigtail Peak	21C33	11	13N	11E
Potato Hill	21C14	36	10N	10E
Williams Creek	21C30	3	13N	8E
Nisqually River				
Ghost Forest	21C4	23	15N	8E
Longfite	21C3	29	15N	8E
Paradise Park (New)	21C35	13	15N	8E
Stem Glade	21C1	13	15N	8E
PUGET SOUND DRAINAGE				
White River				
Corral Pass	21B13	30	18N	11E
White River Campground	21C34	4	16N	9E
Green River				
Airstrip	21B24	18	20N	11E
Charley Creek	21B25	27	21N	8E
Cougar Mountain	21A28P	21	21N	8E
Grass Mountain No. 2	21B27	14	20N	8E
Grass Mountain No. 3	21B28	12	20N	8E
Lester Creek	21B29	36	20N	10E
Lynn Lake	21B50	21	20N	8E
Sawmill Ridge	21B31	5	19N	11E
Snowshoe Butte	21B43P	14	20N	11E
Stempe Pass	21B10	25	21N	11E
Twin Camp	21B30	18	19N	11E
Cedar River				
City Cabin	21B21	30	22N	10E
Mt. Gardner	21B21	30	22N	10E
Mt. Gardner Aux.	21B22	31	22N	9E
Mt. Lindsay	21B16	31	22N	9E
Mt. Washington	21B15	8	22N	9E
Mt. Washington New	21B52	8	22N	9E
Rex River	21B17	11	21N	9E
South Fork Cedar	21B6	24	21N	10E
Tinham Creek	21B20	1	21N	10E
Snoqualmie River				
Alpine Meadow	21B48	31	27N	9E
Olatie Meadows	21B2	19	22N	11E
South Fork Toll	21B18	26	26N	9E
Skykomish River				
Lake Ellizabeth	21B19	33	26N	10E
Skagit River				
Beaver Creek Trail	21A4	35	39N	12E
Beaver Pass	21A1	9	39N	12E
Brown Top	21A28a	26	40N	12E
Devils Park	20A4	34	38N	16E
Freezeout Creek Trail	20A1	14	40N	14E
Freezeout Meadows	20A2	8	40N	16E
Freezeout Meadows New	20A38	8	40N	16E
Greene Creek	21A29	25	36N	16E
Lake Hozomeen	21A2	19	40N	14E
Meadows Cabins	20A8	29	36N	14E
New Hozomeen Lake	20A7	19	40N	14E
Thunder Basin	21A30	15	35N	14E
Baker River				
Baker Pass	21A27a	1	37N	7E
Deer Butte	21A11a	8	36N	8E
Easy Pass	21A7a	19	39N	11E
Jasper Pass	21A6a	17	38N	11E
Komo Kushan	21A17	31	37N	9E
Marten Lake	21A9a	23	38N	8E
Mount Blum	21A18a	27	37N	8E
Rocky Creek	21A12a	20	37N	8E
Schreibers Meadow	21A10a	18	37N	8E
S. F. Thunder Creek	21A14a	20	36N	9E
Sulphur Creek	21A13	22	37N	8E
Three Mile Creek	21A15	18	36N	9E
Watson Lakes	21A8	25	37N	9E
Nooskovok River				
Bald Mountain	21A19a	7	40N	7E
Canyon	21A20a	20	40N	8E
Glacier Creek	21A23	9-10	38N	7E
Panorama New	21A26	17	39N	9E
Panorama Snow Pillow	21A25SP	17	39N	9E
Twin Lakes	21A21a	16	40N	9E
OLYMPIC PENINSULA				
Dungeness River				
Deer Park	23B4	1	28N	5W
Morse Creek				
Cox Valley	23B14	29	28N	6W
Elwha River				
hurricane	23B3	36	29N	7W
Skokomish River				
Black and White	23B7	17	24N	5W
Black and White Lakes	23B6	16	24N	5W
Four Stream	23B10	1	25N	6W
Home Sweet Home	23B5	28	25N	5W
Sundown Pass	23B8	25	24N	7W
Soleduck River				
Deer Lake	23B1	14	28N	9W
LEGEND				
MOUNTAIN AND TOWN LANDS				
21A7	SNOW CREST ONLY			
21A7a	AFRICAN MARSH ONLY			
21A7b	SNOW CREST AND AFRICAN MARSH			
21A7c	SNOW CREST AND AFRICAN MARSH AND TOWN LANDS			
21A7d	SNOW CREST AND AFRICAN MARSH AND TOWN LANDS AND PRECIPITATION STORAGE GAGE			
21A7e	SNOW CREST AND AFRICAN MARSH AND TOWN LANDS AND PRECIPITATION STORAGE GAGE AND SNOW PILLION			



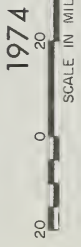
WATER CONTENT OF SNOW
percent of 15 year average
for local drainage



Figures = Percent of average
for local drainage

WASHINGTON SNOW COVER

Snow equivalent compared
to average 15 years (1958-72)



INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

NAME	NUMBER	SEC.	TWP.	RANGE	ELEV.
UPPER COLUMBIA DRAINAGE					
Pend Oreille River					
Boyer Mountain	1742	7	31N	43E	5250
Emchgrass Meadow	1741	24	37N	44E	5000
Winchester Creek	1743	30	33N	43E	2970
Kettle River					
Boulder Road	1842	36	39N	36E	1450
Butte Creek	1843	28	39N	35E	4070
Cabin Creek	1848	5	38N	36E	3170
Goat Creek	1844	26	39N	35E	3535
Snow Caps Creek	1845	3	38N	36E	2150
Snow Caps Trail	1846	5	38N	36E	2720
Summit G. S.	1847	20	39N	35E	4600
Colville River					
Baird	1746	19	36N	42E	3215
Carlson	1849	34	32N	38E	2885
Chewelah	1744	11	32N	41E	4925
Stranger Mountain	1745	26	31N	38E	4590
Togo	18410	6	29N	38E	3370
Sanpoil River					
Sherman Creek Pass	1841	19	36N	35E	5350
Okanogan River					
Clark	1948a	2	36N	23E	7000
Mockamuck	1949a	20	36N	24E	6750
Mutton Creek No. 1	1941	30	37N	24E	5700
Mutton Creek No. 2	1944	19	37N	24E	6000
Paysayten	20428a	32	40N	18E	4300
Rusty Creek	1943P	18	35N	24E	4000
Salmon Meadows	1942M	33	37N	24E	4500
Starvation Mtn.	19410a	15	35N	23E	6750
Touts Coulee	1946	50	39N	25E	2845
Methow River					
Billy Goat Pass	20A10a	10	38N	20E	6400
Dollar Watch	20A29a	8	39N	20E	7000
Harts Pass	20A5A	7	37N	18E	6500
Horseshoe Basin	19A5a	15	40N	23E	7000
Loup Loup	19A7	36	34N	23E	4650
Chelon Lake Basin					
Cloudy Pass	20A22a	12	31N	15E	6500
Greenwood Flat	20A25a	3	31N	16E	3540
Little Meadows	20A24a	8	31N	16E	5275
Lyman Lake	20A23a	18	31N	16E	5900
Park Creek Flat	20A13a	18	34N	16E	2220
Park Creek Ridge	20A12a	7	34N	16E	4600
Petersons	20A16a	3	34N	17E	3730
Rainy Pass	20A9	21	35N	17E	4780
Safety Harbor	20A30a	32	31N	20E	6500
War Creek Pass	20A31a	34	33N	18E	6500
Enliot River					
Blue Creek G.S.	20B28a	19	28N	18E	5425
Brief	20B19	34	28N	19E	1600
Enliot Meadows	20A35a	28	31N	17E	1800
Initial River Trail	20A34a	2	29N	17E	3150
Four Mile Ridge	20A27a	15	28N	19E	7000
Pope Camp	20A36a	17	30N	18E	6540
Pope Ridge	20A20	22	29N	18E	1590
Pope Ridge Snow Pillow	20A24P	22	29N	18E	4300
Pulp Ridge	20A32a	34	30N	18E	6100
Shady Pass	20A37	20	29N	19E	6200
Snow Brushy	20A35a	21	30N	17E	3850
Tomy Creek	20B21a	10	28N	18E	5500
Wenatchee River					
Berne-Mt11 Creek (New)	21B13P	7	26N	15E	2225
Blowett Pass No. 2	20B2	35	22A	17E	1270
Chawakum G. S.	20B1b	1	25S	17E	1810
Lake Wenatchee	20B5	33	27N	17E	1970
Leavenworth R. S.	20B17	1	24S	17E	1127
Merritt	20B18	1	26S	16E	2110
Stevens Pass	21B1	11	26N	15E	1070
Stevens Pass Sand Shed	21B15	12	26S	10E	3700
Wenatchee River (continued)					
Trough #2	20B25P	10	20N	20E	5310
Colockum Creek					
Colockum Creek Upper	20B22	11	20N	20E	5300
Colockum Creek Lower	20B23	1	20N	20E	4300
Squilchuck Creek					
Beehive Springs	20B3	12	21N	19E	4400
Scout-A-Vista	20B4	18	21N	20E	3400
Stemilt Creek					
Jump-Off	20B8	34	21N	20E	4450
Stemilt Slide	20B6	30	21N	20E	5000
Upper Wheeler	20B7P	30	21N	20E	4400
Crob Creek					
Creston-Kunz	18B1m	32	27N	34E	2440
Jack Woods	18B3m	28	27N	31E	2750
Krause	18B4m	21	27N	35E	2420
Shiffels	18B5m	17	27N	32E	2578
Sherman	18B7m	24	27N	35E	2440
Meatridge	18B6m	24	25N	32E	2290
Yakimo River					
Antennum R. S.	21C1	26	12N	14E	3100
81g Boulder Creek	21B9	35	23N	14E	3200
Bumping Lake	21C8	23	16N	12E	3450
Bumping Lake New	21C36	13	16N	12E	3400
Colockum Pass	20B89	25	20N	20E	5370
Cooke Creek	20B10	17	19N	20E	4125
Domery Flat	21B44m	15	20N	14E	2200
Fish Lake	21B4	34	24N	14E	3371
Green Lake	21C10	3	12N	13E	6000
Grouse Camp	20B11	29	21N	19E	5385
High Creek	20B12	34	20N	19E	2930
Joe Lake	21B46a	22	23N	12E	4624
Lake Cle Elum	21B44m	15	20N	14E	2200
Leah Creek	21B47a	24	23N	15E	3327
Manastash	20C1	7	17N	16E	3935
Horse Lake	21C17	6	16N	11E	5400
Nannum	20B13	4	20N	19E	3875
Trail Creek	20B14	20	19N	20E	3360
Tunnel Avenue	21B8	13	71N	11E	2450
Van Fpps Pass	20B26a	16	23N	15E	5925
Walters Flat	20B15	22	20N	19E	3360
Nagrus Lake	21B49a	12	23N	15E	3024
White Pass (East Side)	21C28	1	13N	11E	4500
White Pass (Leach Lake)	21C27	1	13N	11E	4500
Lewis River (continued)					
Divide Meadow	21C29a	21	9N	10E	5600
Grand Meadow	21C25	28	8N	9E	3500
Lone Pine Shelter	21C26	8	9N	7E	3500
Marble Mountain	22C5a	24	8N	5E	3200
New Muddy River	22C6	22	6N	6E	2000
Oldman Pass	21D19	36	6N	7E	3100
Plains of Abraham	22C1a	35	9N	5E	4400
Smith Creek Road	22C4	29	9N	6E	2100
Spencer Meadow	21C20a	16	8N	7E	3400
Surprise Lakes	21C13a	14	9N	8E	4250
Table Mountain	21C24a	20	7N	9E	4200
Timbered Peak	21D18a	36	6N	6E	3000
Cowlitz River					
Cayuse Pass	21C6	15	16N	10E	5300
Mosquito Meadows	21C19	33	10N	7E	4100
Okanapocosh	21C32	28	15N	10E	2200
Packwood Lake	21C31	21	13N	10E	2870
Pigtrail Peak	21C33	11	13N	11E	5900
Portico Hill	21C14	36	10N	10E	4500
William Creek	21C30	3	15N	8E	3250
Nisqually River					
Ghost Forest	21C4	23	15N	8E	4550
Longfute	21C3	29	15N	8E	2760
Paradise Park (New)	21C35	13	15N	8E	5050
Stem Glade	21C1	13	15N	8E	5050
White River					
Corral Pass	21B13	30	18N	11E	6000
White River Campground	21C34	4	16N	9E	
Green River					
Airstrip	21B24	18	20N	11E	1800
Charley Creek	21B25	27	21N	9E	1200
Cougar Mountain	21B45P	21	21N	9E	3200
Gross Mountain No. 2	21B27	14	20N	8E	2900
Gross Mountain No. 3	21B28	12	20N	8E	2100
Lester Creek	21B29	36	20N	10E	3100
Lyman Lake	21B50	21	20N	8E	4000
Sawm11 Ridge	21B51	5	19N	11E	4700
Snowshoe Butte	21B43P	14	20N	11E	5000
Stampede Pass	21B10	25	21N	11E	3860
Twin Camp	21B30	18	19N	11E	4100
Cedar River					
City Cabin	21B3	10	21N	10E	2390
Mt. Gardner	21B21	30	22N	10E	3300
Mt. Gardner Aux.	21B22	31	22N	10E	2500
Mt. Lindsay	21B16	31	22N	9E	2500
Mt. Washington	21B15	8	22N	9E	3000
Mt. Washington New	21B52	8	22N	9E	3000
Rex River	21B17	11	21N	9E	2400
South Fork Cedar	21B6	24	21N	10E	3000
Trihann Creek	21B20	1	21N	10E	3400
Snoqualmie River					
Alpine Meadows	21B48	31	27N	9E	3500
Olatie Meadows	21B2	19	22N	11E	3625
South Fork Tolt	21B18	26	26N	9E	1900
Skokomish River					
Lake Elizabeth	21B19	53	26N	10E	2900
Skagit River					
Beaver Creek Trail	21A4	35	39N	12E	2200
Beaver Pass	21A1	9	39N	12E	3680
Brown Top	21A28a	26	40N	12E	6000
Deyliss Park	20A4	34	38N	16E	5900
Freeroute Creek Trail	20A1	14	40N	14E	3500
Freeroute Meadows	20A2	8	40N	16E	5000
Freeroute Meadows New	20A38	8	40N	16E	5000
Granite Creek	21A29	25	36N	16E	3500
Lake Hozomeen	21A2	19	40N	14E	2600
Meadows Cabins	20A8	29	36N	14E	1900
New Hozomeen Lake	20A7	19	40N	14E	2800
Thunder Basin	21A30	15	35N	14E	4200
Baker River					
Baker Pass	21A27a	1	37N	7E	4900
Dock Butte	21A11a	8	36N	8E	3800
Easy Pass	21A7a	19	39N	11E	5200
Jasper Pass	21A6a	17	38N	11E	5400
Kono Kulshan	21A17	31	37N	9E	800
Marten Lake	21A9a	23	38N	8E	3600
Mount Blum	21A18a	27	38N	10E	5800
Rocky Creek	21A12a	20	37N	8E	2100
Schreibers Meadow	21A10a	18	37N	8E	3400
S. F. Thunder Creek	21A14a	20	36N	9E	2200
Sulphur Creek	21A13	22	37N	8E	1600
Three Mile Creek	21A15	18	36N	9E	1600
Watson Lakes	21A8	25	37N	9E	4500
Nooksack River					
Bald Mountain	21A19a	7	40N	7E	4400
Canyon	21A20a	20	40N	8E	5100
Glacier Creek	21A23	9-10	38N	7E	3700
Panorama New	21A26	17	39N	9E	4300
Panorama Snow Pillow	21A25P	17	39N	9E	4300
Twin Lakes	21A21a	16	40N	9E	5200
OLYMPIC PENINSULA					
Dungeness River					
Deer Park	23B4	1	28N	5W	5200
Morse Creek					
Cox Valley	23B14	29	28N	6W	
Elwha River					
Hurricane	23B3	36	29N	7W	4500
Skokomish River					
Black and White	23B7	17	24N	5W	4200
Black and White Lakes	23B6	16	24N	5W	4700
Four Stream	23B10	1	23N	6W	3000
Home Sweet Home	23B5	28	23N	5W	5200
Sundown Pass	23B8	25	24N	7W	5900
Soladuck River					
Deer Lake	23B1	14	28N	9W	3900
LEGEND					
21A7	SNOW COURSE ONLY				
21A8	SNOW COURSE AND PRECIPITATION STORAGE GAGE				
21A9	SNOW COURSE AND				
21A10	SNOW COURSE AND PRECIPITATION STORAGE GAGE				
21A11	SNOW COURSE AND PRECIPITATION STORAGE GAGE				
21A12	SNOW COURSE AND PRECIPITATION STORAGE GAGE				
21A13	SNOW COURSE AND PRE				

WATER SUPPLY OUTLOOK

State of Washington
February 1, 1974

** The water supply outlook for irrigation and power for the Columbia
** Basin in Washington and from tributary areas can be considered
** excellent for this time of year. Snow surveys made in the state
** and adjacent areas, as of February 1, show a snow pack that varies
** from a low of 7 percent above normal to 92 percent above. This is
** similar to the situation which occurred in 1971 and 1972. It is
** still early in the year and the water supply outlook can change
** with subsequent inputs of rain and snow, but even with average
** conditions from this date forward, an excellent water supply is
** forecasted.

SNOW COVER

All of the watersheds in Washington and tributary areas have a well above normal snow pack and in the Baker River drainage, seven of the ten snow courses have record snow depths as of this date. While most of the snow courses measured have not reached the normal April 1 snow water equivalence, they are approaching it very closely and densities, or the amount of water in the snow as compared to its depth, have reached this April 1 average. The snow pack this year is markedly similar to that which occurred in 1971 and 1972 and of course greatly more than was measured last year. The highest water equivalent compared to average occurred on the Snoqualmie River drainage, but this was a result of only one snow course average. The range of snow cover was from 7 percent above normal for the Colville River to this high of 92 percent above for the Snoqualmie. Compared to last year, the range is from 68 percent above normal for the Skykomish to 348 percent greater for the Mill Creek near Walla Walla. Comparing this years snow to the highs of 1972, the range is from 10 percent above normal on the Colville River to 30 percent below for the Lewis River.

RESERVOIRS

The five reservoirs in the Yakima drainage have 473,000 acre feet in storage as of February 1, compared to 630,000 for normal. This is 76 percent. Comparing this year to last, there is 62 percent and with 1972 - 66 percent. Some of the power reservoirs have more water in storage now than normal, but this is a result of extremely high inflows during the past month. The big reservoir, F. D. R. Lake, has a well below normal amount of water in storage as a result of evacuation of the reservoir for removal of the coffer dam at the third power house. All reservoirs will fill and probably spill with the spring runoff.

PRECIPITATION

Fall precipitation was varied over the Columbia Basin portion in Washington. It ranged from 9 percent below normal on the northwest slopes of the Cascades to 113 percent above normal in the north-central portion of the state. Winter precipitation was all well above normal, ranging from 39 percent above for the northwest slopes to 87 percent above for the Pend Oreille-Spokane drainage area. These percentage figures have been supplied by the National Weather Service.

SOIL MOISTURE

Only seven soil moisture stations are now being read in the state and tributary basins. The situation with these stations fluctuates from above normal to below with only the stack in the Wenatchee watershed showing near capacity soil moisture. Where the soil mantle is wetted to above normal, there has been generally heavy rains and excessive snowmelt. At the higher elevations this rain fell as snow or did not penetrate the snow packs, therefore did not get into the soil mantle.

STREAMFLOW

Only the Okanogan River was reported to have below normal runoff during the month of January. All other stations had well above normal flows, ranging from 31 percent above for the Chehalis to 379 percent above for the Palouse. Even the Columbia at International Boundary had a flow that was 128 percent above during the month. Forecasts of streamflow indicate the expected flow during the April-September period to range from 5 percent above normal for the Columbia River, as measured at Birchbank, to 35 percent above for the Okanogan River near Tonasket. Numerical forecasts can be found following this narrative statement.

STREAMFLOW FORECASTS - FEBRUARY 1974

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1973 are preliminary and subject to revision.

Basin, Stream and Station	Forecast Runoff 1974	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast period	1973	1972	1971	15-Yr Average 53-67
<u>COLUMBIA BASIN</u>							
<u>Columbia River System</u>							
Columbia River	48700	105	Apr-Sep	56151	48708	46368	
at Birchbank <u>1/</u>	38850	104	Apr-Jul	46161	39464	37480	
	28850	107	Apr-Jun	33937	29725	27040	
Columbia River	76500	110	Apr-Sep	83837	77859	69458	
at Grand Coulee <u>1/</u>	65500	111	Apr-Jul	71776	66456	58899	
	51200	112	Apr-Jun	56220	53058	45889	
Columbia River	84500	111	Apr-Sep	97664	84668	76241	
bl Rock Island Dam <u>1/</u>	71000	110	Apr-Jul	84253	72806	64777	
	56600	112	Apr-Jun	65862	58153	50387	
Columbia River	120000	115	Apr-Sep	134716	126868	105176	
at The Dalles, Or <u>1/</u>	103000	114	Apr-Jul	117896	111064	90050	
	85000	117	Apr-Jun	96374	91721	72410	
<u>PEND OREILLE RIVER SYSTEM</u>							
<u>Pend Oreille River</u>							
bl. Box Canyon	18300	114	Apr-Sep	20294	19052	16030	
	16700	113	Apr-Jul	18724	17763	14788	
	14350	113	Apr-Jun	16109	15357	12754	
<u>KETTLE RIVER SYSTEM</u>							
Kettle River	2400	125	Apr-Sep	2289	2240	1918	
nr. Laurier	2290	126	Apr-Jul	2205	2177	1821	
	2110	128	Apr-Jun	1965	1927	1644	

1/ Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

Basin, Stream and Station	Forecast Runoff 1974	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast Period	1973	1972	1971 15-Yr Average 53-67	
<u>Kettle River System (Cont.)</u>							
Colville River	200	131	Apr-Sep		114	170	153
at Kettle Falls	185	131	Apr-Jul		103	158	141
	170	130	Apr-Jun		94	146	131
<u>Spokane River System*</u>							
Spokane River							
at Post Falls Id <u>2/</u>	3800	127	Apr-Sep		4002	3941	3140
	3700	121	Apr-Jul		3875	3798	3055
	3520	121	Apr-Jun		3644	3523	2913
<u>Okanogan River System</u>							
Similkameen River	1980	130	Apr-Sep		3259	1931	1525
nr. Nighthawk	1870	132	Apr-Jul		3090	1840	1419
	1600	134	Apr-Jun		2568	1576	1197
Okanogan River	2350	135	Apr-Sep		3852	2225	1738
nr. Tonasket	2150	136	Apr-Jul		3523	2077	1578
	1820	138	Apr-Jun		2895	1772	1318
<u>Methow River System</u>							
Methow River	1420	135	Apr-Sep		1959	1339	1054
nr. Pateros	1325	135	Apr-Jul		1819	1259	981
	1150	138	Apr-Jun		1524	1061	834
<u>Chelan River System</u>							
Chelan River	1650	130	Apr-Sep		1866	1550	1266
at Chelan <u>3/</u>	1490	133	Apr-Jul		1619	1352	1119
	1190	137	Apr-Jun		1250	1019	870
Stehekin River	1150	127	Apr-Sep		1235	1093	904
at Stehekin	990	128	Apr-Jul		1044	927	772
	750	128	Apr-Jun		772	657	586

* Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho

2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

3/ Observed flow corrected for storage in Lake Chelan.

Basin, Stream and Station	Forecast Runoff 1974	Seasonal Streamflow in Thousands of Acre-Feet					
		% 15-Yr. Avg.	Fore- cast Period	1973	1972	1971	15-Yr. Average 53-67
<u>Wenatchee River System</u>							
Wenatchee River at Plain	1570	118	Apr-Sep		1926	1637	1333
	1450	120	Apr-Jul		1686	1448	1204
	1160	122	Apr-Jun		1272	1045	952
Wenatchee River at Peshastin	2180	120	Apr-Sep		2808	2241	1814
	2020	122	Apr-Jul		2481	1999	1651
	1630	124	Apr-Jun		1891	1454	1316
Stemilt Basin nr Wenatchee	138 *	105	Mar-Sep	*	145*	148*	131*
<u>Yakima River System</u>							
Yakima River nr. Martin <u>4/</u>	160	110	Apr-Sep		213	192	145
	150	112	Apr-Jul		192	179	134
	130	112	Apr-Jun		160	139	116
Yakima River at Cle Elum <u>5/</u>	1140	118	Apr-Sep		1515	1300	968
	1020	115	Apr-Jul		1374	1179	885
	900	118	Apr-Jun		1156	934	762
Yakima River nr. Parker <u>6/</u>	2080	120	Apr-Sep		3231	2873	1738
	2070	120	Apr-Jul		3071	2620	1722
	1900	120	Apr-Jun		2694	2153	1583
Kachess River nr. Easton <u>7/</u>	145	113	Apr-Sep		196	172	128
	138	113	Apr-Jul		182	163	122
	125	116	Apr-Jun		153	130	107
Cle Elum River nr Roslyn <u>8/</u>	570	117	Apr-Sep		750	627	485
	530	119	Apr-Jul		673	568	445
	450	121	Apr-Jun		538	433	373

* Thousands of Miners' inches.

4/ Observed flow corrected for storage in Lake Keechelus.

5/ Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

6/ Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

7/ Observed flow corrected for storage in Lake Kachess.

8/ Observed flow corrected for storage in Lake Cle Elum.

Basin, Stream and Station	Forecast Runoff 1974	Seasonal Streamflow in Thousands of Acre-Feet					
		15-Yr. Avg.	Fore- cast Period	1973	1972	1971	15-Yr. Average 53-67
<u>Yakima River System (Cont.)</u>							
Bumping River	190	127	Apr-Sep		234	193	150
nr. Nile <u>9/</u>	175	127	Apr-Jul		209	174	138
	145	128	Apr-Jun		156	124	114
American River	165	127	Apr-Sep		186	172	129
nr. Nile	155	129	Apr-Jul		169	154	120
	130	131	Apr-Jun		137	113	99
Tieton River							
at Tieton Dam <u>10/</u>	300	120	Apr-Sep		396	326	251
	260	120	Apr-Jul		338	272	215
	240	122	Apr-Jun		261	198	172
Naches River	1080	120	Apr-Sep		1477	1168	899
nr. Naches <u>11/</u>	1010	123	Apr-Jul		1339	1055	819
	850	122	Apr-Jun		1106	833	698
Ahtanum Creek	60	123	Apr-Sep		75	63	40
nr. Tampico <u>12/</u>	55	122	Apr-Jul		69	57	45
	50	125	Apr-Jun		59	48	40
<u>Lower Columbia River System</u>							
Mill Creek							
nr. Walla Walla	39	135	Apr-Sep		34	30	29
	33	132	Apr-Jul		29	26	25
	31	135	Apr-Jun		26	24	23
Lewis River	1700	125	Apr-Sep		1597	1827	1358
at Ariel <u>13/</u>	1500	125	Apr-Jul		1392	1605	1197
	1360	128	Apr-Jun		1236	1341	1057
Cowlitz River	2700	125	Apr-Sep		3048	2800	2160
Blw. Mayfield Dam	2400	125	Apr-Jul		2672	2463	1906
	2000	124	Apr-Jun		2201	1935	1612
Cowlitz River	3600	128	Apr-Sep		3819	3710	2811
at Castle Rock <u>14/</u>	3200	129	Apr-Jul		3331	3253	2487
	2700	127	Apr-Jun		2782	2585	2113

9/ Observed flow corrected for storage in Bumping Lake.

10/ Observed flow corrected for storage in Rimrock Lake.

11/ Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

12/ Observed flow of North and South Forks (combined)

13/ Observed flow corrected for storage in Lake Metwin, Yale and Swift Reservoirs.

14/ Observed flow corrected for storage in Mayfield Reservoir.

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about February 1, 1974, as percent of the same date in 1973 and 1972 and average of record.

Tributary Basin	No. of Courses Average	1974 Snow Water Expressed as percent of		
		1973	1972	1958-72 Avg.
<u>UPPER COLUMBIA BASIN</u>				
Pend Oreille	11	179	98	121
Kettle	16	198	95	115
Colville	5	187	110	107
Spokane	3	241	86	120
Okanogan	32	220	88	134
Methow	9	230	107	160
Chelan	8	190	104	147
Entiat	9	180	100	171
Wenatchee	9	241	76	128
Yakima	18	268	80	150
Ahtanum	2	196	95	162
<u>LOWER COLUMBIA</u>				
Mill Creek	3	448	86	175
Klickitat	1	387	87	138
White Salmon	2	336	88	158
Lewis	18	309	70	121
Cowlitz	9	324	72	136
<u>PUGET SOUND</u>				
Nisqually	4	337	82	166
Green	10	437	79	139
Snoqualmie	1	430	105	192
Skykomish	2	168	77	123
Skagit	10	220	98	164
Nooksack	2	203	72	-
<u>OLYMPIC PENINSULA</u>				
Skokomish	4	201	94	127

RESERVOIR STORAGE - 1000 Acre Feet

BASIN OR STREAM	RESERVOIR	USABLE 1/ CAPACITY	1974	Measured (February)		
				1973	1972	Normal*
<u>COLUMBIA</u>						
Spokane	Coeur d'Alene Lake	225.1	386.0	153.3	147.3	137.0
Columbia	Franklin D. Roosevelt Lake	5232.0	730.6	4937.1	4420.2	3812.5
Columbia	Banks Lake	761.8	720.3	610.7	714.9	494.0
Okanogan	Conconully Reservoir	13.0	5.6	10.8	9.1	5.6
Okanogan	Salmon Lake	10.5	7.3	9.5	8.6	8.6
Chelan	Lake Chelan	676.1	297.7	237.1	190.4	318.4
<u>YAKIMA</u>						
Yakima	Keechelus Lake	157.8	87.3	98.6	137.2	92.1
Kaches	Kachess Lake	239.0	93.6	193.0	156.5	172.2
Cle Elum	Lake Cle Elum	436.9	168.7	315.9	277.1	241.1
Bumping	Bumping Lake	33.7	10.8	6.7	5.0	9.9
Tieton	Rimrock Lake	198.0	112.0	143.1	146.7	111.3
<u>PUGET SOUND</u>						
Skagit	Ross Reservoir	1202.0	1231.4	997.3	822.1	956.3
Skagit	Diablo Reservoir	90.6	85.2	83.4	83.9	85.6
Skagit	Gorge Reservoir	9.8	7.6	8.2	7.8	--

1/ Based on Active Storage

* 15-year average 1953-67

SOIL MOISTURE - FEBRUARY

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content		
					Inches as of Feb. 1		
					1974	1973	1972
<u>OKANOGAN</u>							
Salmon Meadows	19A2M	4500	48	5.4	3.7	2.4	3.6
Trout Creek	3-M	3600	48	7.3	3.0	3.4	4.0
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	5.0	6.6	- -
Lake Cle Elum	21B14M	2200	48	12.8	9.2	6.9	- -
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	10.1	7.3	10.5
Helmerts	17C2M	4400	48	12.0	9.8	10.7	10.6
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	11.3	8.9	9.0

FALL SOIL MOISTURE

Drainage Basin and Station	Number	Elev.	Profile Depth	Inches Total Capacity	Soil Moisture Content		
					Inches as of Oct. 1		
					1973	1972	1971
<u>OKANOGAN</u>							
Salmon Meadows	19A02M	4500	48	5.4	2.6	2.8	2.7
Trout Creek	3-M	3600	48	7.3	2.8	3.3	3.3
<u>YAKIMA</u>							
Domery Flat	21B20m	2200	48	6.9	2.6	4.1	2.1
Lake Cle Elum	21B14M	2200	48	12.8	6.1	8.7	7.1
<u>WALLA WALLA</u>							
Couse	17C3m	3650	48	11.1	5.6	6.0	6.2
Helmerts	17C2M	4400	48	12.0	7.6	7.7	8.2
<u>WENATCHEE</u>							
Upper Wheeler	20B7M	4400	48	12.7	6.0	5.7	6.5

PRECIPITATION 1/

Division Averages and Departures

Drainage Divisions	FALL		WINTER	
	<u>Sept-Oct</u> Average	<u>1973 2/</u> Departure	<u>Nov-Dec 1973</u> Average	<u>Jan 1974 2/</u> Departure
Columbia in Canada	5.14	+0.67	11.78	+2.57
Pend Oreille - Spokane	4.28	-0.20	24.21	+11.28
Northeastern Washington	3.36	-0.58	13.84	+5.95
Southeastern Washington	3.71	+0.48	15.84	+6.87
Central Washington	4.68	-0.07	28.87	+8.84
North Central Washington	3.44	+1.82	7.03	+2.11
Northwest Slope Cascades	11.53	-1.16	49.87	+14.05
Southwest Slope Cascades	9.69	+1.01	42.03	+13.12

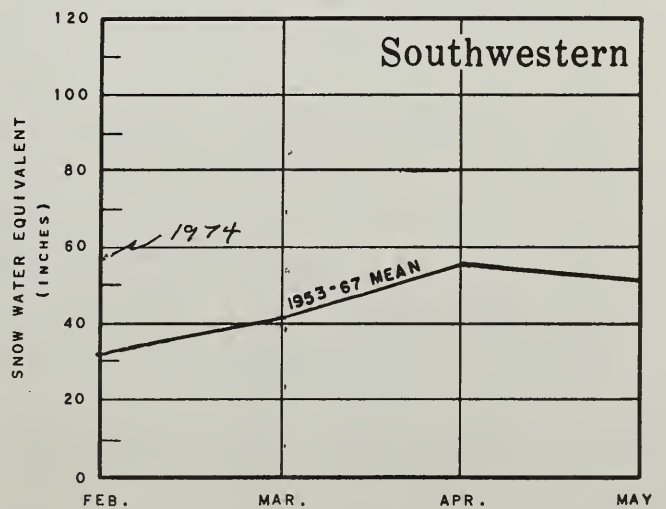
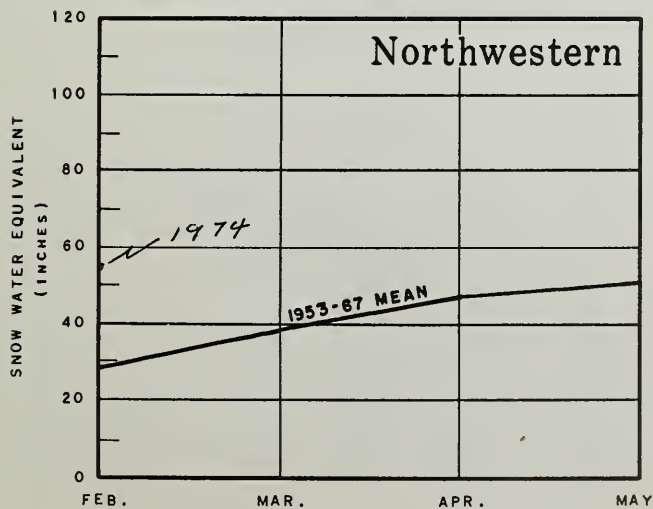
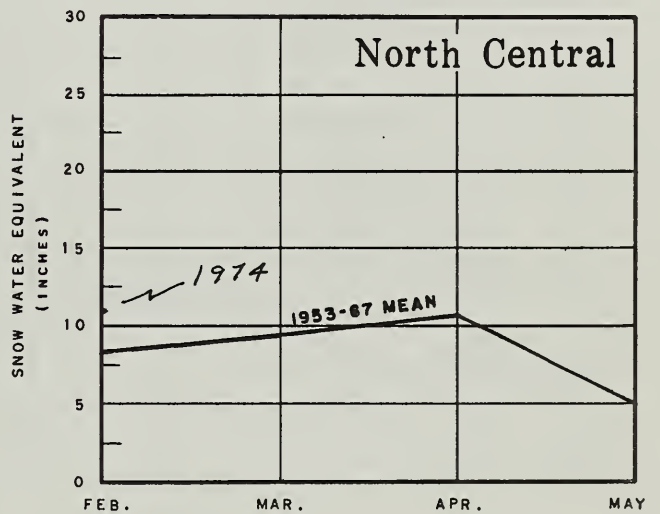
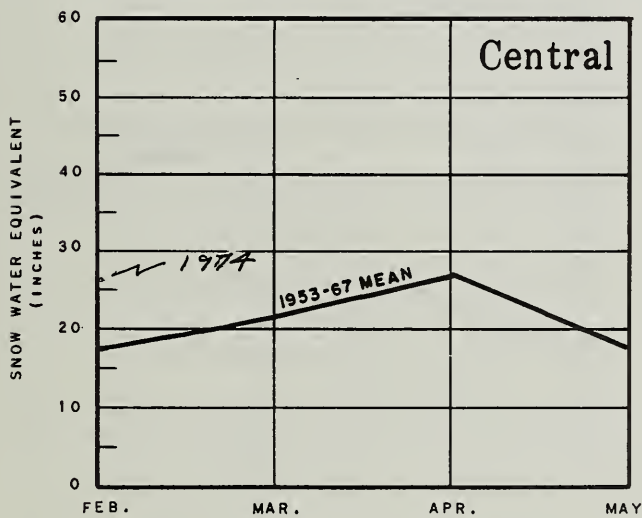
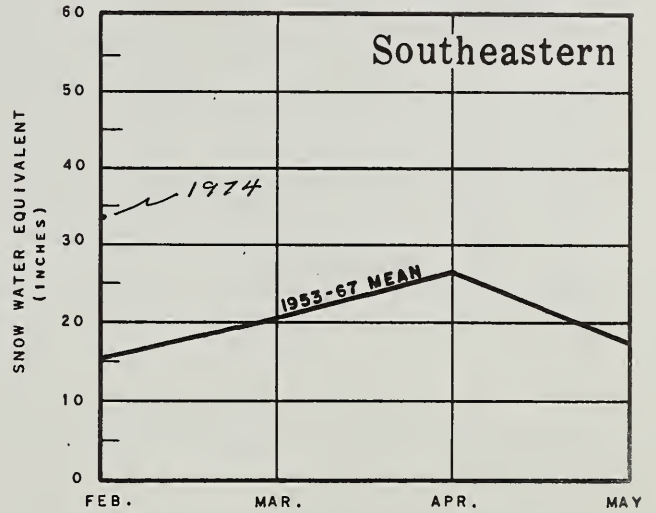
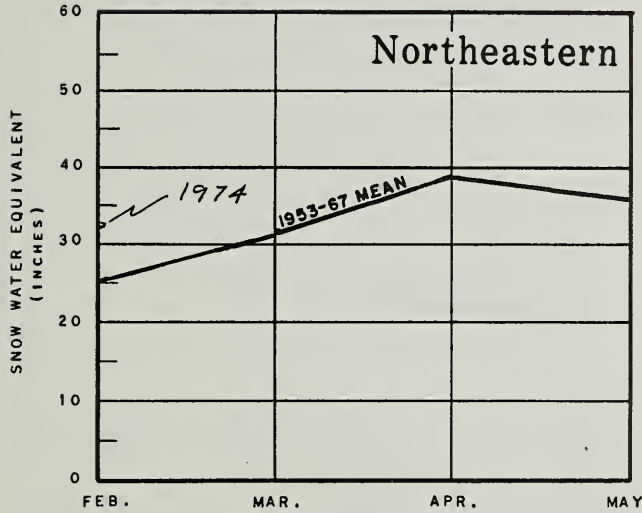
Northeastern Washington	- Lower Spokane, Colville, Sanpoil and lower Kettle Drainages.
Southeastern Washington	- Touchet, Tucannon and Palouse Drainages.
Central Washington	- Yakima, Wenatchee and Chelan Drainages.
North Central Washington	- Methow and Okanogan Drainages.
Northwest Slope Cascades	- Puget Sound Drainages.
Southwest Slope Cascades	- Lower Columbia Drainages.

1/ - Preliminary analysis by National Weather Service from data furnished by Meteorological Services of Canada and the National Weather Service.

2/ - Departure from 15-year (1958-72) drainage division average.

WASHINGTON SNOW COVER

DRAINAGE AREAS

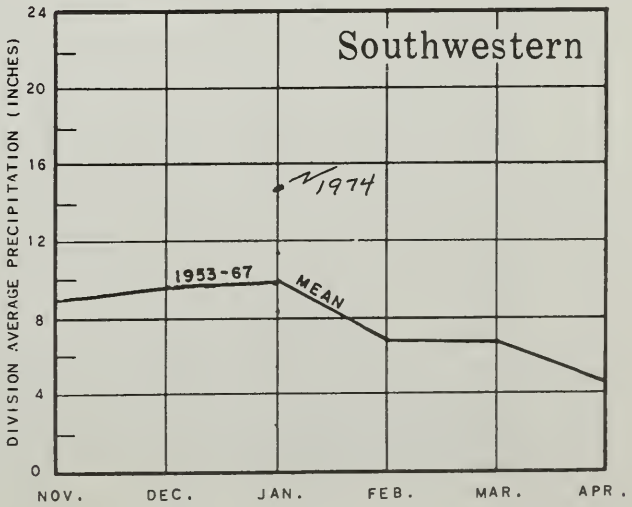
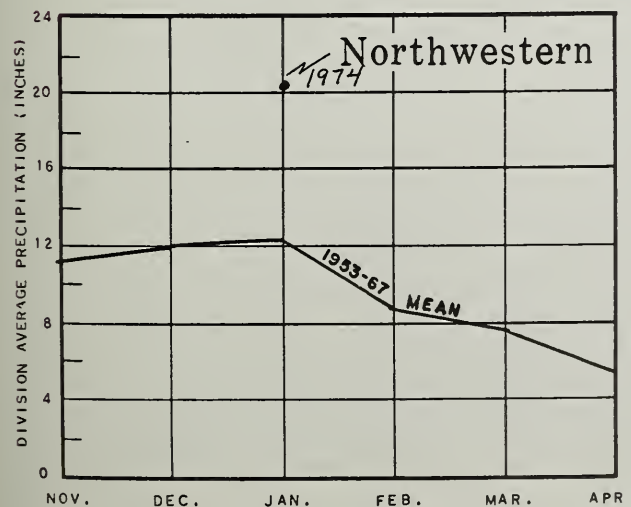
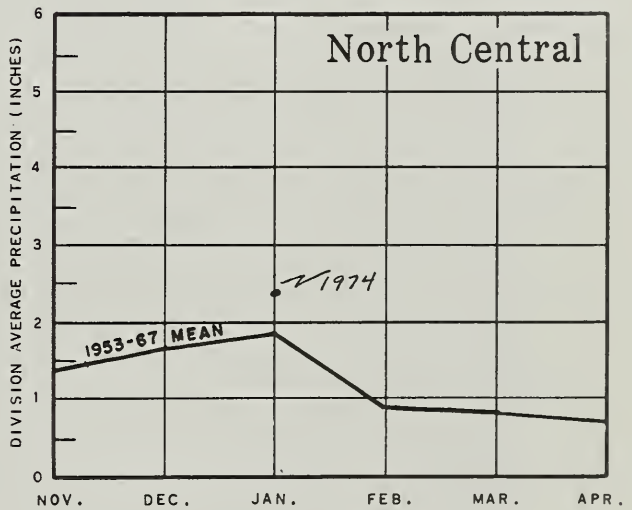
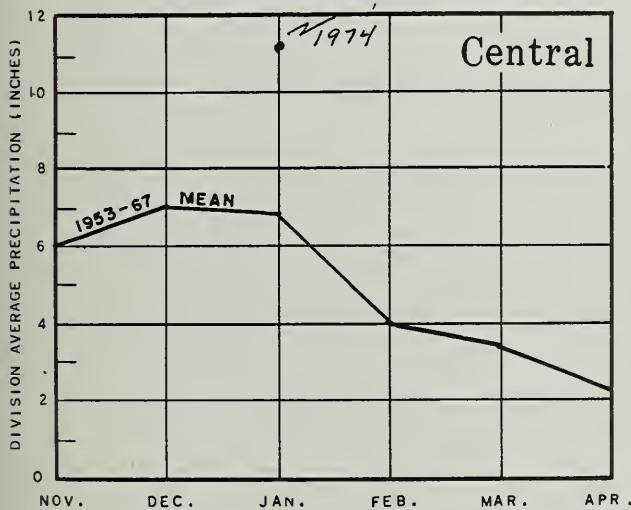
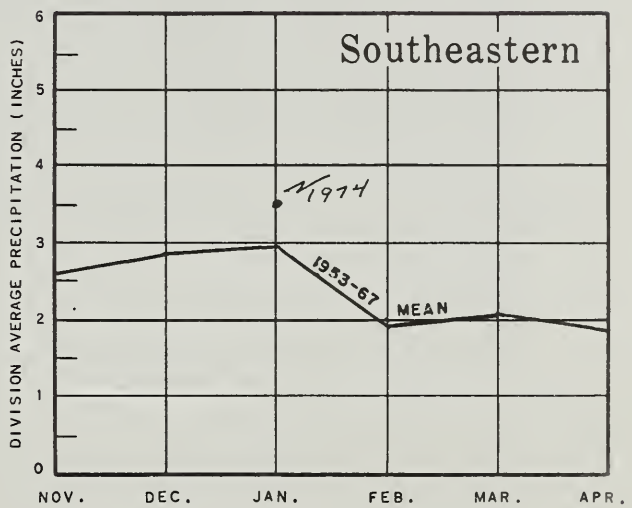
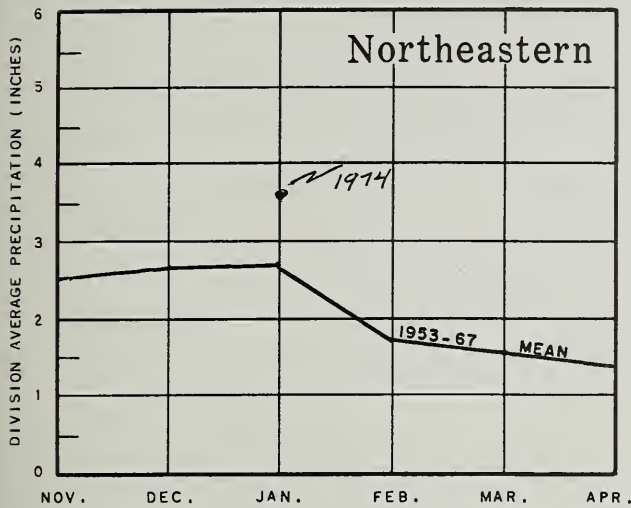




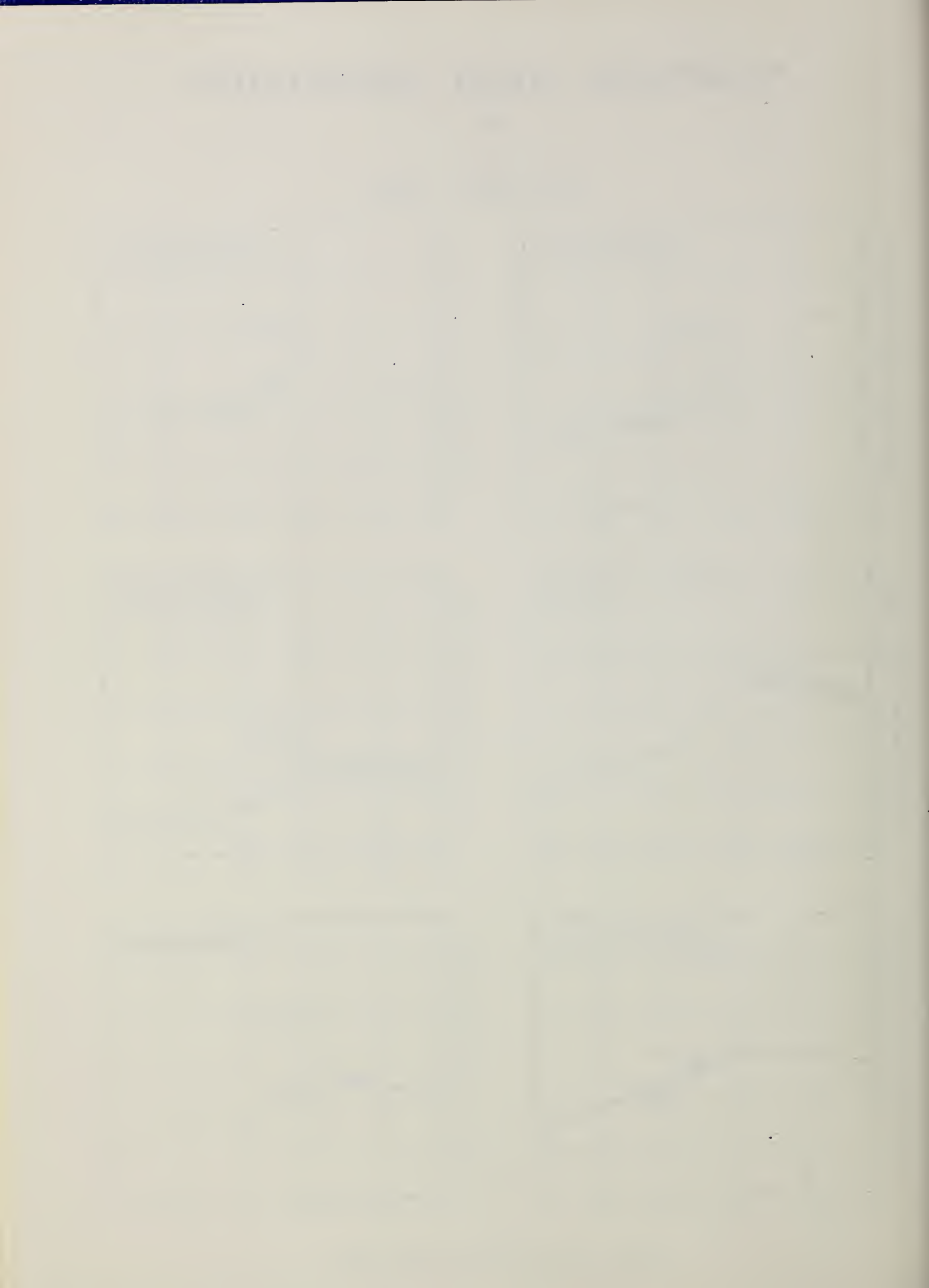
WASHINGTON VALLEY PRECIPITATION

1974

DRAINAGE AREAS



M7-O-22028-2-L
USDA-SCS PORTLAND, OREG. 1971

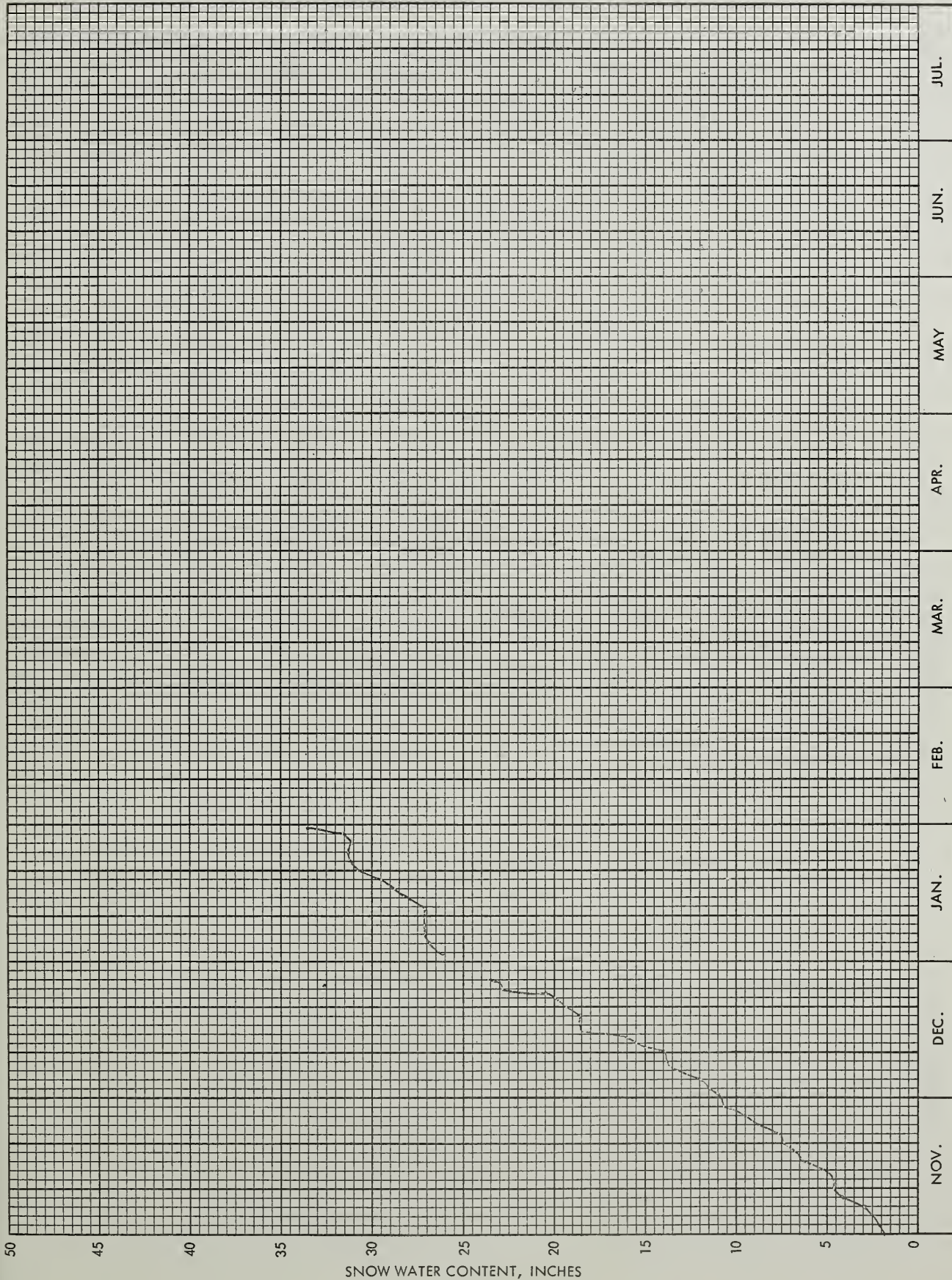


SNOW PILLOW DATA

AS OF February 1, 1974

Sec. 13 T. 26N R. 14E No. 21P41SP Drainage: Kenatchee R.

Lat. 47° 45' Long. 121° 42' Elev. 3240





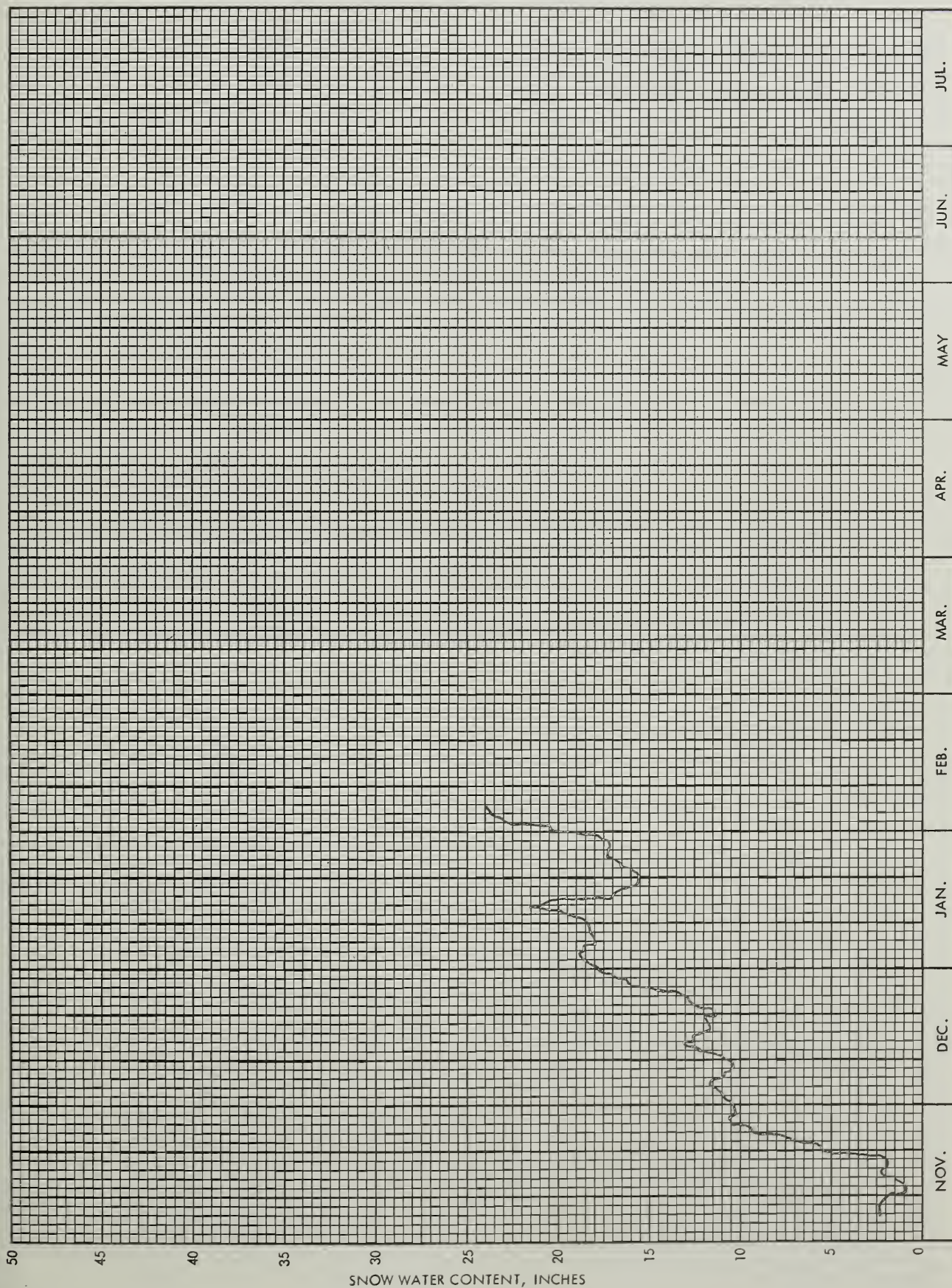
SNOW PILLOW DATA

Cougar Mountain - FS

1973 - 1974

Sec. 21 T. 21N R. 9E No. 21B42SP Drainage: Green River

Lat. 47° 17' Long. 120° 40' Elev. 3200'





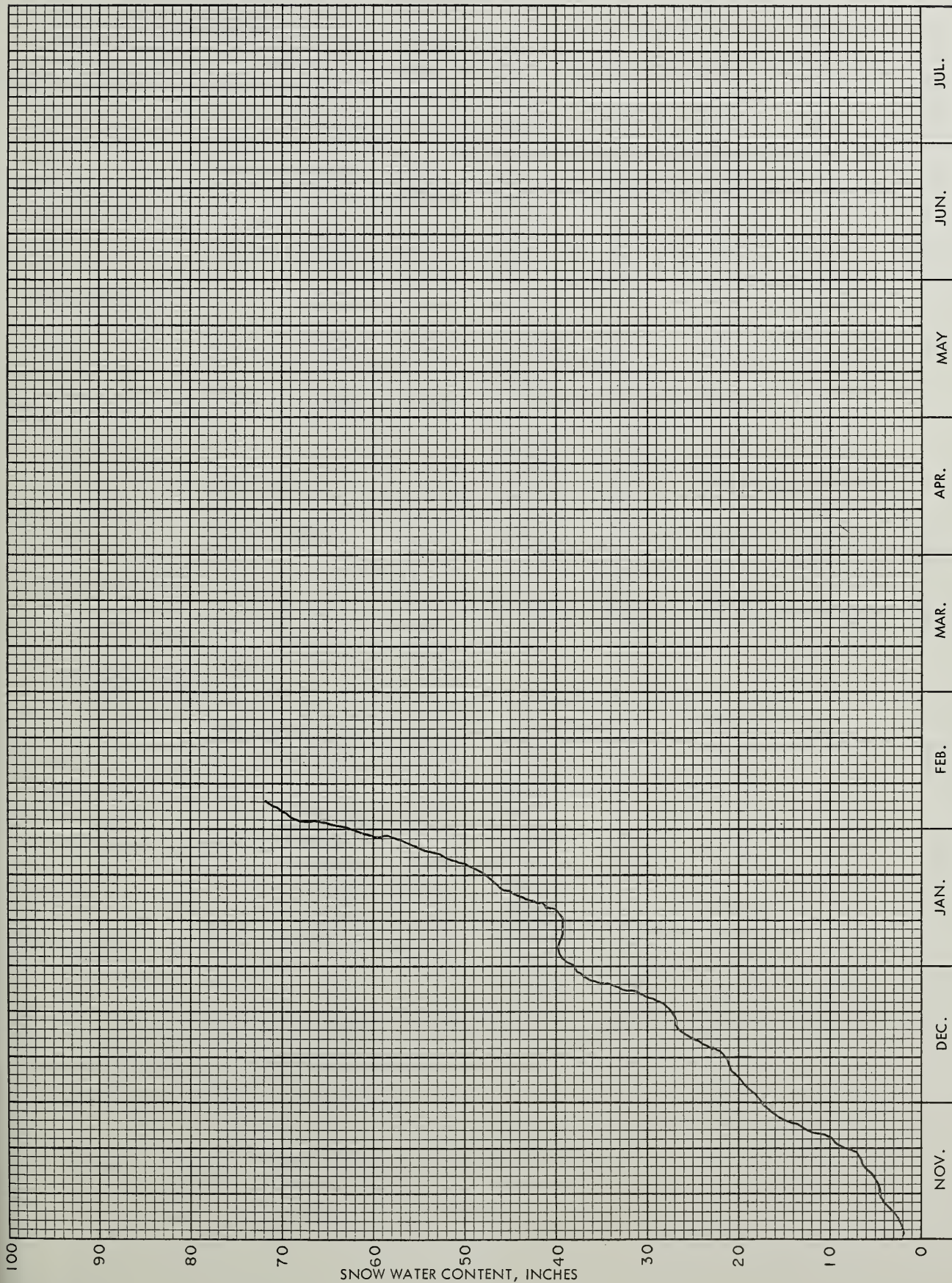
SNOWSHOE BUTTE - FS

SNOW PILLOW DATA

AS OF FEBRUARY 1, 1974

Sec. 28 T. 21N R. 9E No. 21B43SP Drainage: Green River

Lat. 47° 13' Long. 121° 22' Elev. 5000'



SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average #

U P P E R C O L U M B I A D R A I N A G EPEND OREILLE RIVER

Benton Meadow	16A02	4900	1/2	15	3.0	0.0	3.5
			1/30	6	1.8	1.8	6.0
Benton Spring	16A03	4900	12/31	46	14.3	5.8	8.4
			1/29	62	20.1	11.5	13.8
Chewelah	17A04	4925	2/2	59	17.2	9.0	13.0
Heart Lake Trail	14C10	4800	1/3	46	11.7	3.8	8.7
			1/29	65	19.1	7.2	17.6
Hoodoo Basin	15C10	6000	1/3	95	30.0	18.1	20.8
			1/29	128	46.0	28.8	37.9
Hoodoo Creek	15C01	5900	1/3	87	24.9	17.1	18.9
			1/29	125	41.9	26.4	35.5
Lookout	15B02	5250	12/28	79	18.1	10.5	15.6
			1/31	115	32.0	16.7	26.7
Nelson	19-Can	3050	11/1	0	0.0	0.9	-
			11/14	5	1.2	0.8	-
			12/13	48	9.9	1.8	-
			12.28	51	13.4	4.6	7.4*
			1/30	61	15.7	9.6	11.3*
Schweitzer Bowl	16A06	4500	12/28	84	24.8	9.7	-
			1/29	94	32.5	17.2	22.6
Schweitzer Ridge	16A05	6100	12/28	107	34.8	15.3	-
			1/29	140	53.5	26.3	32.1
Winchester Creek	17A03	2970	1/28	32	10.4	6.0	9.7

KETTLE RIVER

Barnes Creek	90-Can	5300	1/30	60	15.1	10.8	14.1*
Big White Mountain	154-Can	5500	1/28	68	19.0	11.2	13.8*
Boulder Road	18A02	1450	1/30	7	2.0	1.1	4.6
Butte Creek	18A03	4070	1/30	32	8.7	5.4	7.4
Cabin Creek	18A08	3170	1/30	30	7.6	3.7	6.5
Carmi	126-Can	4100	1/28	25	6.2	2.2	5.3*
Farron # 1	17-Can	4000	1/31	50	13.9	8.0	9.6*
Farron # 2	243-Can	4000	1/31	50	12.9	7.8	New Course
Goat Creek	18A04	3595	1/30	26	6.7	4.0	6.2
Monashee Pass	48A-Can	4500	12/28	24	6.6	6.0	-
			1/30	43	9.3	8.3	9.6*
Old Glory Mountain	42-Can	7000	1/27	97	41.7	19.5	19.0*

Average based on 1958-72 average

* Average for years of record

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 2

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average †

KETTLE RIVER (Cont.)

Snow Caps Creek	18A05	2150	1/30	16	4.2	1.5	4.8
Snow Caps Trail	18A06	2720	1/30	22	4.6	2.1	5.5
Summit G. S.	18A07	4600	1/30	25	7.6	4.7	5.9
Trapping Creek Lower	166-Can	3050	1/28	20	4.7	1.2	4.4*
Trapping Creek Upper	165-Can	4450	1/28	38	8.5	5.8	7.4*

COLVILLE RIVER

Baird	17A6	3215	1/31	25	7.4	4.4	6.1
Carlson	18A9	2885	2/1	3	0.7	1.0	4.5
Chewelah	17A4	4925	2/2	59	17.2	9.0	13.0
Stranger Mountain	17A5	4990	2/2	48	16.5	7.1	11.0
Togo	18A10	3370	2/2	40	11.9	4.3	10.1

SPOKANE RIVER

Above Burke	15B8	4100	12/28	48	9.8	5.1	-
			1/31	74	17.7	9.0	-
4th of July Summit	16B3	3100	1/29	23	7.3	0.6	6.8
Lookout	15B02	5250	12/28	79	18.1	10.5	15.6
			1/31	115	32.0	16.7	26.7
Mosquito Ridge	16A4	5110	1/30	114	38.6	-	-
Sherwin	16C1	3200	12/31	39	10.0	1.3	-
			1/31	55	14.8	4.4	11.0

OKANOGAN RIVER

Aberdeen Lake	6A-Can	4300	2/1	23	5.0	3.3	5.0*
Blackwall Peak	100-Can	6250	12/19	53	16.2	15.4	14.7*
			1/28	106	34.2	19.7	25.3*
Brenda Mine	193-Can	4800	1/28	40	11.7	7.7	9.9*
Brookmere	27-Can	3200	1/28	30	7.6	3.0	7.2*
Carrs Landing Upper	168-Can	3200	12/31	14	2.6	0.3	-
			1/31	14	2.6	1.1	3.8*
Clark +	19A8a	7000	2/5	72	21.6	- -	-
Enderby	130-Can	6250	1/28	104	32.2	23.6	25.0*
Freezeout Meadows New	20A38	5000	2/7	179	63.3	17.4	New
Hamilton Hill	107-Can	4900	1/29	52	13.1	8.4	10.4*
Harts Pass	20A05A	6500	2/6	156	52.3	25.9	32.0
Horseshoe Basin +	19A05a	7000	2/4	57	17.1	8.1	9.7
Isontok Lake	152-Can	5510	12/29	24	6.0	3.0	4.0*
			1/26	38	8.7	4.0	6.2*

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 3

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average #

OKANOGAN RIVER (Cont.)

Lost Horse Mountain	105-Can	6300	1/30	48	7.8	4.8	6.7*
Loup Loup	19A07	4650	1/31	46	12.4	5.2	7.6
McCulloch	4-Can	4200	12/30	22	4.6	2.2	3.2*
			1/27	30	6.4	3.0	4.8*
Missizula Mountain	106-Can	5100	1/30	41	11.2	-	6.5*
Mission Creek	5A-Can	6000	12/27	46	12.4	7.8	8.9*
			1/29	67	18.7	10.3	13.6*
Monashee Pass	48A-Can	4500	12/28	24	6.6	6.0	-
			1/30	43	9.3	8.3	9.6*
Mount Kobau	156-Can	5950	1/31	49	14.7	5.0	10.6*
Muckamuck +	19A09a	6390	2/5	62	18.6	-	-
Mutton Creek No. 1	19A01	5700	1/29	57	18.5	7.4	10.4
Mutton Creek No. 2	19A04	6000	1/29	56	17.5	7.4	10.9
Mutton Creek No. 2 SP	19A11SP	6000	1/29	-	13.4	5.2	-
New Copper Mountain	46A-Can	4300	1/30	28	7.2	2.0	5.5*
New Penticton Res. # 2	183-Can	5225	1/31	39	9.3	4.2	7.5*
Oyama Lake	203-Can	4400	1/29	23	7.6	4.3	5.5*
Paysayten +	20A28a	4300	2/4	68	20.4	9.0	13.0
Postill Lake	55-Can	4500	1/30	31	6.5	4.1	5.9*
Rusty Creek	19A03	4000	1/28	30	9.4	3.2	5.9
Salmon Meadows	19A02	4500	1/29	40	11.5	4.6	7.8
Silver Star Mountain	99-Can	6050	1/1	58	18.9	13.5	14.2*
			1/27	75	25.2	15.3	19.1*
Starvation Mountain +	19A10a	6750	2/4	70	21.0	-	-
Summerland Reservoir	3A-Can	4200	12/30	24	6.3	2.8	4.6*
			1/27	32	8.4	4.5	7.7*
Touts Coulee	19A06	2845	1/29	17	4.9	1.0	3.4
Trout Creek	3-Can	4700	1/28	30	7.0	3.5	5.2*
Vasseux Creek	233-Can	4600	1/6	22	4.6	1.8	-
			1/30	28	5.4	2.0	5.5*
White Rocks Mountain	70-Can	6000	1/29	82	27.3	12.2	18.5*

METHOW RIVER

Billy Goat Pass +	21A10a	6409	2/4	95	28.5	-	20.8
Dollar Watch +	20A29a	7000	2/4	99	29.7	14.6	19.4
Harts Pass	20A05A	6500	2/6	156	52.3	25.9	32.0
Horseshoe Basin +	19A05A	7000	2/4	57	17.1	8.1	9.7
Loup Loup	19A07	4650	1/31	46	12.4	5.2	7.6

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation



SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 4

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average #

METHOW RIVER(Cont.)

Mutton Creek No. 1	19A01	5700	1/29	57	18.5	7.4	10.4
Mutton Creek No. 2	19A04	6000	1/29	56	17.5	7.4	10.9
Rusty Creek	19A03	4000	1/28	30	9.4	3.2	5.9
Salmon Meadows	19A02	4500	1/29	40	11.5	4.6	7.8
War Creek Pass +	20A31a	6500	2/5	147	44.1	23.5	-

CHELAN LAKE BASIN

Cloudy Pass +	20A22a	6500	2/5	160	51.2	22.2	29.0
Greenwood Flat +	20A25a	3540	2/5	90	28.8	15.3	23.3
Little Meadows +	20A24a	5275	2/5	133	42.6	22.2	32.2
Lyman Lake +	20A23A	5900	Marker Down			39.0	42.1
Park Creek Flat +	20A13a	2220	2/5	100	32.0	19.5	27.3
Park Creek Ridge	20A12A	4600	2/5	175	56.0	28.5	34.1
Petersons +	20A16a	3730	2/5	123	39.4	21.6	25.1
Rainy Pass	20A09	4780	2/6	142	45.6	26.0	29.5
Safety Harbor +	20A30A	6300	Marker Buried			15.4	-
War Creek Pass +	20A31a	6500	2/5	147	44.1	23.5	-

ENTIAT RIVER

Blue Creek G. S.	20B28a	5425	2/5	132	37.0	24.5	-
Entiat Meadows +	20A33a	4800	2/5	174	48.7	26.4	-
Entiat River Trail +	20A34a	3150	2/5	82	22.3	9.9	-
Four Mile Ridge +	20B27a	7000	2/5	144	40.3	20.1	-
Fox Camp +	20A36a	6510	2/5	182	51.0	32.6	-
Pope Ridge	20B20	4300	2/1	86	24.0	11.5	14.0
Pugh Ridge	20A32a	6400	2/5	127	35.6	22.9	-
Shady Pass	20A37	6200	Not Measured			18.5	-
Snow Brushy +	20A35a	3850	2/5	133	37.2	22.9	-
Tommy Creek +	20B21a	5300	2/5	94	26.3	14.4	-

WENATCHEE RIVER

Berne-Mill Creek	21B23	3170	11/14	14	1.4	-	1.1
			11/29	41	10.2	1.4	4.1
			12/13	55	12.9	2.3	7.6
			12/27	75	19.8	6.9	11.2
			1/29	82	29.3	13.9	21.4

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation



SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 5

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average #
<u>WENATCHEE RIVER (Cont.)</u>							
Berne-Mill Creek New	21B41SP	3240	11/29	41	10.0	1.0	-
			12/27	77	23.6	4.7	9.9
			1/29	75	28.2	10.9	18.7
Blewett Pass No. 2	20B02	4270	12/27	51	13.4	4.7	6.7
			2/4	64	19.0	5.4	13.0
Chiwaukum G. S.	20B16	1810	11/14	6	1.4	-	0.2
			11/29	18	4.6	-	1.5
			12/13	29	6.1	0.5	3.2
			12/27	47	10.0	2.0	5.1
Lake Wenatchee	20B05	1970	1/29	42	12.8	4.1	9.9
			11/14	5	1.1	-	0.3
			11/29	23	4.7	1.2	1.5
			12/13	30	6.3	0.6	3.9
			12/27	47	10.9	2.6	6.1
			1/16	47	13.9	4.9	9.6
Leavenworth R. S.	20B17	1127	1/29	42	14.8	5.4	12.1
			11/1	1	0.5	-	0.0
			11/5	2	1.0	-	0.0
			12/3	5	2.2	-	0.8
			12/17	8	3.0	0.5	1.8
			1/2	20	4.8	-	3.4
			1/15	19	6.8	1.9	4.7
Lyman Lake + Merritt	20A23A 20B18	5900 2140	2/4	13	5.4	3.3	6.0
			Marker Down			39.0	42.1
			11/14	8	2.0	-	-
			11/29	30	6.6	0.6	2.3
			12/13	34	8.4	0.5	4.9
			12/27	56	13.4	2.8	7.9
			1/16	60	16.2	5.2	11.7
Stevens Pass	21B01	4070	1/29	49	17.9	6.7	14.5
			11/14	24	3.6	2.9	3.6
			11/29	59	14.6	6.0	8.9
			12/13	86	25.4	8.4	14.7
			12/27	108	32.6	15.4	21.7
			1/16	100	37.9	21.8	29.0
Stevens Pass Sand Shed	21B45	3700	1/29	141	45.8	26.0	37.0
			11/14	18	2.0	-	-
			11/29	48	11.0	2.5	-
			12/13	65	16.0	3.5	-
			12/27	84	23.9	9.1	-
			1/16	79	27.9	14.6	-
			1/29	107	33.2	18.4	-

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 6

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average [#]

COLOCKUM CREEK

Colockum Creek Upper	20B22	5300	Not Measured			8.3	-
Colockum Creek Lower	20B23	4300	2/1	45	13.0	6.0	-

SQUILCHUCK CREEK

Beehive Springs	20B03	4400	1/30	35	11.4	5.3	6.6
Scout-A-Vista	20B04	3400	1/30	39	12.2	5.8	6.5

STEMILT CREEK

Jump-Off	20B08	4450	2/1	41	11.8	6.0	6.7
Stemilt Slide	20B06	5000	1/31	66	18.6	10.0	12.4
Upper Wheeler	20B07	4400	1/31	43	15.6	6.0	8.3

YAKIMA RIVER

Ahtanum R. S.	21C11	3100	12/28	37	5.8	1.5	3.1
			1/29	22	10.2	4.0	6.3
Blewett Pass No. 2	20B02	4270	12/27	51	13.4	4.7	6.7
			2/4	64	19.0	5.4	13.0
Bumping Lake Old	21C08	3450	11/30	29	7.5	-	2.3
			12/13	37	9.1	-	4.0
			1/2	56	14.4	3.6	7.1
			1/20	57	16.8	6.6	10.4
			2/4	71	20.2	8.0	13.2
Bumping Lake New	21C36	3400	11/30	34	9.0	-	-
			12/13	44	10.8	-	5.8
			1/2	63	16.9	4.1	8.7
			1/20	64	18.8	9.1	13.0
			2/4	82	24.0	7.0	18.3
Cayuse Pass	21C06	5300	2/7	218	86.4	38.9	58.7
Colockum Pass	20B09	5370	1/28	56	17.6	10.6	11.2
Cooke Creek	20B10	4123	1/28	27	8.2	3.4	7.2
Grouse Camp	20B11	5385	1/29	56	19.9	10.0	12.1
High Creek	20B12	2930	1/29	26	7.0	3.0	4.9
Joe Lake +	21B46a	4624	Not Measured			18.0	-
Green Lake	21C10	6000	1/29	93	25.2	18.2	-
Lake Cle Elum	21B14M	2200	10/31	7	0.9	0.0	-
			11/19	6	1.6	0.0	-
			11/30	15	3.6	-	1.1
			12/14	15	4.4	1.0	2.2
			1/3	38	9.0	0.0	4.2
			1/16	37	10.7	1.6	6.5
			2/4	29	10.4	3.6	8.2

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 7

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average $\frac{1}{2}$

YAKIMA RIVER (Cont.)

Lemah Creek +	21B47a	3327	2/7	132	39.6	14.2	-
Manashtash	20C01	3935	1/25	19	6.2	2.4	3.9
Morse Lake	21C17	5400	Not Measured			34.2	41.7
Nanum	20B13	3875	1/29	32	10.1	4.5	7.8
Olallie Meadows	21B2	3625	2/6	170	62.9	14.6	32.7
Satus Pass	20D01	4030	1/30	35	12.0	3.1	8.7
Stampede Pass SP	21B10	3860	12/9	-	17.8	-	6.3
			12/18	-	23.4	-	11.9
			1/1	-	35.6	11.5	16.5
			1/15	-	39.4	14.8	22.0
			2/5	-	60.6	18.5	38.7
Trail Creek	20B14	3360	1/28	8	3.7	0.0	2.3
Tunnel Avenue	21B08	2450	10/31	7	1.0	0.0	-
			11/16	15	3.9	0.0	0.0
			11/30	34	8.5	-	2.7
			12/13	37	10.5	1.0	6.4
			1/3	62	18.8	4.5	9.2
			1/16	57	19.8	6.4	11.3
			2/4	76	26.3	9.6	17.6
Van Epps Pass +	20B26a	5925	2/7	123	36.9	19.2	-
Walters Flat	20B15	3360	1/29	30	9.6	3.9	6.3
Waptus Lake +	21B49a	3024	2/7	170	51.0	15.8	-
White Pass (E. Side)	21C28	4500	11/28	36	8.6	-	-
			12/14	44	11.5	-	6.3
			1/3	70	19.6	5.7	9.6
			1/18	64	21.3	8.1	14.0
			2/5	88	27.7	9.1	18.2
White Pass (L. Lake)	21C27	4500	12/28	80	23.1	5.7	11.8
			2/2	96	32.6	9.4	22.0

AHTANUM CREEK

Ahtanum R. S.	21C11	3100	12/28	37	5.8	1.5	3.1
			1/29	22	10.2	4.0	6.3
Green Lake	21C10	6000	1/29	93	25.2	18.2	-

ASOTIN CREEK

Spruce Springs	17C4	5700	1/28	72	26.7	9.4	19.3
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Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 8

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average $\frac{\#}{\#}$

MILL CREEK

Homestead	17C1	4030	1/30	31	10.9	1.2	6.5
Martin Springs	17C02	4400	1/30	47	15.6	1.8	9.8
Tollgate	18D3M	5070	1/29	95	33.6	7.5	16.7

KLICKITAT RIVER

Satus Pass	20D1	4030	1/30	35	12.0	3.1	8.7
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WHITE SALMON RIVER

Cultus Creek	21C12	4000	1/1	113	35.1	10.3	17.8
			2/5	145	49.4	16.4	32.5
Surprise Lakes	21C13A	4250	12/31	113	37.2	10.8	20.1
			2/5	166	58.7	15.8	35.9

WIND RIVER

Old Man Pass	21D19	3100	12/31	56	15.8	0.8	7.5
			2/5	58	19.3	5.0	14.7

LEWIS RIVER

Blue Lake +	21C22a	4800	12/31	167	55.1	25.5	34.5
			2/1	216	77.8	34.6	60.5
Bob's Trail	21C21	2200	1/1	44	12.4	1.0	6.5
			2/3	42	15.9	3.3	12.0
Calamity Ridge +	22D01a	2500	12/31	11	3.2	1.2	3.9
			2/5	4	0.3	0.2	5.6
Council Pass +	21C18a	4200	12/31	102	32.6	10.1	18.6
			2/1	134	46.9	17.9	29.7
Cultus Creek	21C12	4000	1/1	113	35.1	10.3	17.8
			2/5	145	49.4	16.4	32.5
Divide Meadow	21C29a	5600	12/31	108	34.6	16.8	27.5
			2/3	154	53.9	16.6	42.3
Grand Meadow	21C25	3500	12/31	74	20.2	4.1	10.5
			2/3	86	30.0	8.4	19.4
Lone Pine Shelter	21C26	3800	1/1	104	32.6	7.0	17.0
			2/5	133	45.1	12.7	30.5
Marble Mountain +	22C05a	3200	12/31	78	25.5	4.0	12.7
			2/1	84	37.0	7.1	28.7
Mosquito Meadows	21C19	4100	1/1	94	28.6	8.6	18.9
			2/5	126	41.3	15.4	32.1

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 9

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Number	Elevation				Last Year	Average [#]

LEWIS RIVER (Cont.)

New Muddy River	22C06	2000	1/1	30	7.4	0.0	6.4
			2/1	7	3.4	1.7	12.1
Old Man Pass	21D19	3100	12/31	56	15.8	0.8	18.9
			2/5	58	19.3	5.0	32.1
Plains of Abraham +	22C01a	4400	12/31	152	50.2	19.5	28.8
			2/3	162	61.6	28.8	45.2
Smith Creek Road	22C04	2100	1/1	45	14.4	0.0	9.5
			2/1	38	15.4	6.0	15.7
Spencer Meadow +	21C20a	3400	12/31	66	19.8	3.2	10.2
			2/3	84	30.2	8.4	17.9
Surprise Lakes	21C13A	4250	12/31	113	37.2	10.8	20.1
			2/5	166	58.7	15.8	35.9
Table Mountain +	21C24a	4200	12/31	120	38.4	11.8	21.4
			2/3	154	53.9	20.5	34.8
Timbered Peak +	21D18a	3000	12/31	48	13.9	1.2	8.0
			2/5	50	16.5	6.0	14.3

COWLITZ RIVER

Cayuse Pass	21C06	5300	12/31	158	52.8	23.8	41.3
			2/7	218	86.4	38.9	58.7
Mosquito Meadows	21C19	4100	1/1	94	28.6	8.6	18.9
			2/5	126	41.3	15.4	32.1
Ohanapecosh	21C32	2200	12/28	39	10.0	0.1	4.9
			2/2	40	13.9	3.3	14.4
Packwood Lake	21C31	2870	12/31	36	8.4	0.7	4.7
			2/2	48	14.9	2.9	10.6
Pigtail Peak	21C33	5900	12/28	115	33.7	22.5	26.1
			1/16	106	42.9	26.1	-
			2/2	176	60.5	30.0	46.7
Plains of Abraham +	22C01a	4400	12/31	152	50.2	19.5	28.8
			2/3	162	61.6	28.8	45.2
Potato Hill	21C14	4500	1/1	75	22.2	8.0	12.8
			2/5	106	32.6	11.5	23.7
White Pass (E. Side)	21C28	4500	11/28	36	8.6	-	-
			12/14	44	11.5	-	6.3
			1/3	70	19.6	5.7	9.6
			1/18	64	21.3	8.1	14.0
			2/5	88	27.7	9.1	18.2
White Pass (L. Lake)	21C27	4500	12/28	80	23.1	5.7	11.8
			2/2	96	32.6	9.4	22.0
Willame Creek	21C30	3250	12/31	75	22.6	4.0	10.8
			2/2	106	34.4	9.4	22.3

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 10

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average [#]

PUGET SOUND DRAINAGENISQUALLY RIVER

Ghost Forest	21C04	4550	1/2	91	29.7	12.8	13.6
			2/6	146	49.0	17.3	31.7
Longmire	21C03	2760	12/27	31	7.8	0.4	2.5
			2/6	46	17.2	2.8	8.3
New Paradise Park	21C35	5500	1/2	128	44.2	22.0	24.9
			2/6	200	76.0	34.6	50.2
Stem Glade	21C01	5050	1/2	122	40.7	20.4	24.9
			2/6	195	71.9	30.9	48.3

WHITE RIVER

Cayuse Pass	21C06	5300	12/31	158	52.8	23.8	41.3
			2/7	218	86.4	38.9	58.7

GREEN RIVER

Airstrip	21B24	1800	11/29	9	2.4	0.0	0.6
			12/31	12	2.5	0.0	2.5
			2/5	8	2.0	1.6	4.9
Charley Creek	21B25	1200	11/29	2	0.8	0.0	0.0
			12/31	3	0.6	0.0	1.6
			2/5	Trace	0.0	0.0	1.5
Cougar Mountain	21B42SP	3200	1/4	45	15.2	3.4	-
			2/6	70	24.6	6.2	-
Grass Mtn. No. 2	21B27	2900	11/29	30	9.2	0.2	2.9
			12/31	47	13.9	2.1	7.6
			2/5	69	26.2	6.0	15.3
Grass Mtn. No. 3	21B28	2100	11/29	10	3.1	0.0	0.7
			12/31	13	1.9	0.5	2.6
			2/5	11	2.8	1.5	5.3
Lester Creek	21B29	3100	11/29	34	9.1	0.3	3.4
			12/31	64	16.8	3.8	9.7
			2/5	87	28.8	7.8	17.8
Lynn Lake	21B50	4000	11/29	28	10.4	0.3	-
			12/31	45	16.2	3.2	-
			2/5	82	33.5	2.2	-
Sawmill Ridge	21B31	4700	11/29	46	10.8	1.9	7.0
			12/31	74	23.2	8.8	15.2
			2/5	136	43.8	13.7	28.6
Snowshoe Butte	21B43SP	5000	1/4	106	33.6	15.4	-
			2/6	175	72.0	27.2	-

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 11

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average [#]

GREEN RIVER (Cont.)

Stampede Pass SP	21B10	3860	12/9	-	17.8	-	6.3
			12/18	-	23.4	-	11.9
			1/1	-	35.6	11.5	16.5
			1/15	-	39.4	14.8	22.0
			2/5	-	60.6	18.5	28.7
Twin Camp	21B30	4100	11/29	Not Measured		0.7	4.1
			12/31	64	17.8	4.7	11.3
			2/5	101	32.2	7.7	17.6

SNOQUALMIE RIVER

Olallie Meadows	21B02	3625	2/6	170	62.9	14.6	32.7
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SKYKOMISH RIVER

Stevens Pass	21B01	4070	11/14	24	3.6	2.9	3.6
			11/29	59	14.6	6.0	8.9
			12/13	86	25.4	8.4	14.7
			12/27	108	32.6	15.4	21.7
			1/16	100	37.9	21.8	29.0
			1/29	141	45.8	26.0	37.0
Stevens Pass Sand Shed	21B45	4070	11/14	18	2.0	-	-
			11/29	48	11.0	2.5	-
			12/13	65	16.0	3.5	-
			12/27	84	23.9	9.1	-
			1/16	79	27.9	14.6	-
			1/29	107	33.2	18.4	-

SKAGIT RIVER

Beaver Creek Trail	21A04	2200	2/7	49	16.4	6.6	-
Beaver Pass	21A01	3680	2/5	110	35.1	14.0	-
Brown Top Ridge +	21A28a	6000	2/5	210	74.4	38.6	-
Cloudy Pass +	20A22a	6500	2/5	160	51.2	22.2	29.0
Devils Park	20A04	5900	2/6	155	53.5	27.2	31.9
Freezeout Creek Trail	20A01	3500	2/7	62	15.6	8.0	-
Freezeout Meadows New	20A38	5000	2/7	179	63.3	17.4	-
Granite Creek	21A29A	3500	2/6	81	21.0	10.4	-
Harts Pass	20A05A	6500	2/6	156	52.3	25.9	32.0
Klesilkwa	35B-Can	3700	Not Measured			5.1	10.4*
Lake Hozomeen	21A02	2600	Not Measured			2.6	-
Lyman Lake	20A23A	5900	Marker Down			39.0	42.1

Average based on 1958-72 average

* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 12

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
						Last Year	Average [#]
NAME	Number	Elevation					

SKAGIT RIVER (Cont.)

Meadow Cabins	20A08	1900	2/6	17	5.6	2.8	-
New Hozomeen Lake	21A30	2800	2/7	58	16.7	4.8	-
New Tashme	26A-Can	2500	2/2	47	13.4	4.0	8.5
Rainy Pass	20A09	4780	2/6	142	45.6	26.0	29.5
Thunder Basin	20A07	4200	2/6	83	24.1	11.2	-

BAKER RIVER

Baker Pass +	21A27a	4900	12/31	130	52.0	-	-
			2/5	254	101.0	-	-
Dock Butte +	21A11A	3800	11/5	12	3.6	3.6	-
			12/4	62	18.6	8.4	-
			12/31	96	39.0	27.0	-
			2/5	212	85.0	41.0	44.8
Easy Pass +	21A7A	5200	11/5	18	5.4	0.6	-
			12/4	62	18.6	7.2	-
			12/31	92	37.0	26.0	-
			2/5	216	86.0	38.0	53.9
Jasper Pass +	21A6A	5400	11/5	12	3.6	2.4	-
			12/4	114	34.2	15.9	-
			12/31	144	58.0	46.0	-
			2/5	269	108.0	64.0	64.7
Marten Lake	21A09A	3600	11/5	6	1.8	3.6	-
			12/4	92	27.6	12.0	-
			12/31	120	48.0	33.0	-
			2/5	204	82.0	51.0	52.2
Mt. Blum +	21A18a	5800	11/5	6	1.8	1.2	-
			12/4	58	26.4	8.7	-
			12/31	120	48.0	38.0	-
			2/5	192	77.0	46.0	42.5
Panorama New	21A26	4300	1/14	120	41.7	30.7	-
			1/29	168	62.0	35.7	-
Rocky Creek	21A12A	2100	11/5	4	1.2	4.5	-
			12/4	34	10.2	0.6	-
			12/31	47	19.0	9.0	-
			2/5	88	35.0	21.0	21.5
Schreibers Meadow	21A10A	3400	11/5	5	1.5	0.9	-
			12/4	66	19.8	3.6	-
			12/31	92	37.0	18.0	-
			2/5	193	77.0	31.0	39.9
S.F. Thunder Creek +	21A14A	2200	11/5	2	0.6	0.6	-
			12/4	12	3.6	0.3	-
			12/31	16	6.0	3.0	-
			2/5	32	13.0	3.0	7.4

Average based on 1958-72 average

+ Snow water equivalent estimated from aerial stadia observation

SNOW DATA TO FEBRUARY 1, 1974 - APPENDIX 13

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Number	Elevation				Last Year	Average [#]

BAKER RIVER (Cont.)

Watson Lakes	21A08A	4500	11/5	12	3.6	3.0	-
			12/4	56	16.8	9.6	-
			12/31	100	40.0	24.0	-

NOOKSACK RIVER

Glacier Creek	21A23	3700	12/3	33	9.0	0.0	-
			12/27	27	8.2	5.4	-
			1/28	61	18.4	7.9	-
Panorama New	21A26	4300	1/14	120	41.7	30.7	-
			1/29	168	62.0	35.7	-

MORSE CREEK

Cox Valley	23B14	4500	2/2	122	40.8	23.8	-
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ELWHA RIVER

Hurricane	23B03	4500	Late Report			11.7	16.7
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SKOKOMISH RIVER

Black & White	23B07	4200	12/28	84	29.2	12.8	16.9
			2/4	128	41.8	22.9	30.5
Black & White Lakes	23B06	4700	12/28	100	38.4	24.7	26.0
			2/4	149	55.0	36.7	42.6
Four Streams	23B10	3000	12/28	62	23.6	2.4	15.1
			2/4	77	29.6	9.4	24.7
Home Sweet Home	23B05	5200	12/28	129	46.3	28.4	36.2
			2/4	197	69.0	43.8	56.5

[#] Average based on 1958-72 average



Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests and Water Resources,
Water Resources Service, British Columbia

States:

Washington State Department of Ecology
Washington State Department of Natural Resources

Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District
Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Tacoma
City of Seattle

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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